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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/557,580	03/24/2006	Hisanori Akiyama	125973	9054
25944 OLIFF & BERI	7590 05/28/200 RIDGE, PLC	EXAMINER		
P.O. BOX 320850			MINSKEY, JACOB T	
ALEXANDRIA, VA 22320-4850			ART UNIT	PAPER NUMBER
			1791	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/557,580	AKIYAMA, HISANORI		
Office Action Summary	Examiner	Art Unit		
	JACOB T. MINSKEY	1791		
The MAILING DATE of this commun Period for Reply	ication appears on the cover sheet wi	th the correspondence address		
A SHORTENED STATUTORY PERIOD F WHICHEVER IS LONGER, FROM THE M - Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this comn - If NO period for reply is specified above, the maximum sta - Failure to reply within the set or extended period for reply Any reply received by the Office later than three months a earmed patent term adjustment. See 37 CFR 1.704(b).	AILING DATE OF THIS COMMUNIC of 37 CFR 1.136(a). In no event, however, may a runication. atutory period will apply and will expire SIX (6) MON will, by statute, cause the application to become AB	CATION. eply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).		
Status				
1) Responsive to communication(s) file	2b)☐ This action is non-final. for allowance except for formal matt	•		
Disposition of Claims				
4) Claim(s) 1-5 is/are pending in the ap 4a) Of the above claim(s) is/a 5) Claim(s) is/are allowed. 6) Claim(s) 1-5 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restrict	re withdrawn from consideration.			
Application Papers				
9) The specification is objected to by the 10) The drawing(s) filed on is/are: Applicant may not request that any objected to the specific process. The control of the specific process are specifically as a specific process. The specific process are specifically as a specific process. The specific process are specific process are specific process. The specific process are specific process are specific process. The specific process are specific process are specific process. The specific process are specific process are specific process. The specific process are specific process are specific process. The specific process are specific process are specific process. The specific process are specific pro	a) accepted or b) objected to ction to the drawing(s) be held in abeyant the correction is required if the drawing	ce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (F 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	TO-948) Paper No(s	Summary (PTO-413) s)/Mail Date nformal Patent Application 		

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DETAILED ACTION

Response to Arguments

- 1. Applicant's arguments filed 02/04/2009 have been fully considered but they are not persuasive
- 2. Claims 1-3 and 5 were amended on 02/04/2009 for reasons of clarity.
- 3. Applicant has amended the Specification in order to overcome the objections to the specification made in the prior Office Action.
- 4. The Objections to claims 2 and 4 are also withdrawn due to these amendments.
- 5. Applicants argue that Miyazawa fails to at least disclose forming a curved surface shape on the plastic material, so that a geometric center of the edge shape positions at a processing center or geometric center of the plastic material, as recited in claims 1 and 4.
- 6. The Examiner respectfully disagrees. Figure 5(a) of Miyazawa depicts a forming step that positions point L1 (the point located at the center of the pupil when the lens is in the frame [0082]) which is equivalent to the geometrical center of the lens (item 403 of figure 9 in the instant application) with the machine center (MC) of the apparatus that will correspond with the geometric center of the plastic material, as instantly claimed.
- 7. The Examiner would like to present that the claim does not specify if the positioning of the geometric centers takes place before or after the forming. Miyazawa details how to adjust the lens formation in order to adjust the optical center, the focus point, and the physical center during the forming operation, so even if the points do not

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align at the start of the process, they do either during forming or after by the taught formation steps to make a lens that focuses from the physical center of the lens.

- 8. Applicant further argues that not all the limitations of claim 2 are taught by Miyazawa specifically that the external diameter of the lens blank is at least larger than the frame diamter and is then processed to fit the order.
- 9. The Examiner respectfully disagrees. Miyazawa teaches in [0044] that "lens shape is large enough to be cut into any of the finish shapes requested by prescriptions," which reads directly on the language of claim 2.
- 10. Additionally the Applicant has submitted a supplemental amendment and arguments after a personal interview.
- 11. Applicant's arguments filed 02/27/2009 have been fully considered but they are not persuasive.
- 12. Claims 1 and 4 have been amended.
- 13. Applicant is traversing the anticipation rejection of claims 1-5 by Miyazawa. Applicant argues that Miyazawa fails to disclose "wherein said lens member forming step forms a curved surface shape on the plastic materials so that a geometric center of the edge shape positions at a geometric center of the plastic material." Applicant further argues that the teaching of Miyazawa does not necessarily align the geometric center of the lens with the geometric center of the lens blank.
- 14. The Examiner respectfully disagrees. Figure 5(a) of Miyazawa depicts a forming step that positions point L1 (the point located at the center of the pupil when the lens is in the frame [0082]) which is equivalent to the geometrical center of the lens (item 403).

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of figure 9 in the instant application) with the machine center (MC) of the apparatus that will correspond with the geometric center of the plastic material, as instantly claimed.

- 15. The Examiner would like to present that the claim does not specify if the positioning of the geometric centers takes place before or after the forming. Miyazawa details how to adjust the lens formation in order to adjust the optical center, the focus point, and the physical center during the forming operation, so even if the points do not align at the start of the process, they do either during forming or after by the taught formation steps to make a lens that focuses from the physical center of the lens.
- 16. Applicant traverses the remaining claims for their dependency on the independent and reasons discussed above. The previously presented rejections are repeated in the following section.

Claim Rejections - 35 USC § 102

17. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 18. Claims 1-5 are rejected under 35 U.S.C. 102(b) as being anticipated by Miyazawa et al, US patent publication 2002/0160690 A1.
- 19. Regarding claim 1, Miyazawa et al teach a spectacle lens manufacturing method [0033] manufacturing a spectacle lens based on order information ([0034] and [0037-

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0038]) including spectacle frame information, a prescription value, and layout information, comprising the steps of: forming a lens member to obtain the lens member by forming a curved surface shape satisfying an optical specification of the spectacle lens related to an order [0037,0042] on a plastic material [0014]; and edging to process the lens member to be shaped into an edge shape of the spectacle lens related to the order (chamfering, [0042]); wherein said lens member forming step is to form a curved surface shape on the plastic material so that a geometric center of the edge shape positions at a geometric center of the plastic material (figure 5 item L1, and [0054,0082] and discussion above).

20. Regarding claim 2, Miyazawa remains as applied in claim 1 and further teach that the lens member forming step uses a lens blank (semi-finished lens, [0044]) of which both the surface have not yet processed to the curved surface shape satisfying the optical specification of the spectacle lens related to the order [0044] but processed to a predetermined surface shape as the plastic material of a processing target, and is able to process the spectacle lens related to the order appropriately out of a plurality of lens blanks manufactured and prepared in advance [0044-0045], and wherein the lens blank having an outside diameter at least larger than a maximum distance between a frame center and a frame of the spectacle frame related to the order and having the smallest outside diameter as well ("the semi-finished lens, therefore has a thickness relatively larger than a finish thickness" [0044]) is selected and processed so that the spectacle lens related to the order is manufactured (optimum semi-finished lens to be machined is selected from the stock [0045]).

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- 21. Regarding claim 3, Miyazawa remains as applied in claim 1 and further teach that said lens member forming step uses a numerical-control curve generator [0052] generating the curved surface shape of a processing target by controlling distances from a cutting blade to the plastic material (X, Y, and Z- axis positioning means [0052]) and a rotation axis (figure 2, item 213 [0052]), respectively, in accordance with the curved surface shape of a formation target while rotating the plastic material around the rotation axis passing through a specific point of the curved surface of the processing target (center coordinate and normal line, [0052-0054]), and wherein the plastic material is arranged so that the center thereof being a geometric center (MC [0083]) of an edge shape of the spectacle lens comes above the rotation axis (figures 5 and 6, [0082-0083]), a calculation is made to obtain a tilt angle (angle [0083]) in a case where a reference surface of the plastic material is tilted at a predetermined angle with respect to a case where the processing is performed on assumption that an optical center or a lens vertex positions above the rotation axis, and a processing is performed by tilting the reference surface of the plastic material beforehand to offset the tilted angle [0083].
- 22. Regarding claim 4, Miyazawa teaches a spectacle lens manufacturing system [0033], comprising: an order placement-side computer (online terminal, [0037]) processing and transmitting information required to order a spectacle lens including frame shape information [0037]; a manufacturing-side computer (calculating computer [0043]) acquiring information required to manufacture the spectacle lens-related to the order by receiving the information transmitted by the order placement-side computer [0043 and 0045]; and a spectacle lens manufacturing device manufacturing the

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spectacle lens-related to the order that is processed to have a shape settable in a frame by performing processes including formations of a curved surface and edge shape on a plastic material based on the information acquired by the manufacturing-side computer [0049]; wherein said spectacle lens manufacturing device uses, as the plastic material of a processing target [0014], a lens blank being a partly finished product of which both surfaces are not yet processed to have a curved surface satisfying an ultimate optical specification but have a predetermined surface shape (semi-finished lens [0043-0044]), wherein a geometric center of the lens blank matches with a frame center of the edge shape to be processed (see discussion above [0052-0054]), wherein said spectacle lens manufacturing device selects, out of plural lens blank (stocked semi-finished lenses [0045]) of different outside diameters and/or lens thicknesses prepared in advance [0044-0045], the lens blank having the outside diameter and/or lens thickness size(s) allowing an appropriate processing for the spectacle lens-related to the order [0044-0045], wherein the selection of the outside diameter of the lens blank is conducted by specifying based on a distance from a frame center to a frame and the spectacle lensrelated to the order is manufactured by processing the selected lens blank [0044-0045]. and wherein the curved surface formation is performed to both the surfaces of the lens blank selected by the selection [0035].

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23. Regarding claim 5, Miyazawa remains as applied in claim 2 and further teach that said lens member forming step uses a numerical-control curve generator [0052] generating the curved surface shape of a processing target by controlling distances from a cutting blade to the plastic material (X, Y, and Z- axis positioning means [0052])

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and a rotation axis (figure 2, item 213 [0052]), respectively, in accordance with the curved surface shape of a formation target while rotating the plastic material around the rotation axis passing through a specific point of the curved surface of the processing target (center coordinate and normal line, [0052-0054]), and wherein the plastic material is arranged so that the center thereof being a geometric center (MC [0083]) of an edge shape of the spectacle lens comes above the rotation axis (figures 5 and 6, [0082-0083]), a calculation is made to obtain a tilt angle (angle [0083]) in a case where a reference surface of the plastic material is tilted at a predetermined angle with respect to a case where the processing is performed on assumption that an optical center or a lens vertex positions above the rotation axis, and a processing is performed by tilting the reference surface of the plastic material beforehand to offset the tilted angle [0083].

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JACOB T. MINSKEY whose telephone number is (571)270-7003. The examiner can normally be reached on Monday to Friday 7:30-5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on 571-272-1189. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JTM / Carlos Lopez/ Primary Examiner, Art Unit 1791